Learn: How to create Extended Regex?

- > Syntax:
 - > grep -E [options] "Pattern" fileName(s) (Pattern is a search string here)
 - > commandOutput | grep -E [options] "Pattern"
- > Note: grep -E is same as egrep
- > Special Characters or Meta Characters $\rightarrow [, ^, *, ., ?, +, *, {}, () \text{ and } [] \text{ and } []$
- ➤ Note: Use \ before special character to match special character itself
- > grep -E 'pattern' fileName : Search may occur in any place of the line
- > grep -E '^pattern' fileName : Search Must Occur at the beginning of the line
- > grep -E 'pattern\$' fileName : Search Must Occur at the ending of the line
- > grep -E '^pattern\$' fileName : Search Must Occur at the beginning and ending of the line
- > grep -E '^\$' fileName : Match for empty lines

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```
> Pattern:
                any character except for the new line '\n'
               match the preceding item zero or more time
               match the preceding item zero or one time
               match the preceding item one or more time
      \{n\}
               match the preceding item exactly n times
      {n,}
               match the preceding item n or more times
   > {,m}
               match the preceding item maximum m times
               match the preceding item from n to m times
   \rightarrow {n,m}
   > 'abc | xyz'
                        search for the lines which are having abc or xyz
                        grouping or allowing pattern into one item
   > [38]
                        match for 3 or 8
   > [462]
                        match for 4 or 6 or 2
   > [0-9]
                        match for any number
    > Note:
       > [0-9] or [[:digit:]]
```

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```
▶ [ab] match for a or b
▶ [xadq] match for x or a or d or q
▶ [a-z] any letter from a to z
▶ Note:
▶ [a-z] or [[:lower:]]
▶ [A-Z] or [[:upper:]]
▶ [a-zA-Z] any alphabet (lower or upper)
▶ Note:
▶ [a-zA-Z] or [[:alpha:]]
▶ [:alnum:]] match for alphanumeric
```

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```
▶ [ab] match for a or b
▶ [^ab] everything except a and b
▶ Notes:
▶ [^a-zA-Z] non-letters (some symbols and number)
▶ [^a-zA-Z0-9] non-letters (some symbols)
```